



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

Kolbe & Kolbe Millwork Company, Inc.
1323 South 11th Ave.
Wausau, WI 54403

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series " Heritage Manor Transom " Wood Fixed Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 1057, titled "Wood Manor Door Transom Impact Window", sheets 1 through 4 of 4, dated 11/08/2001 with revision A dated 08/16/2007, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

REVISION of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 02-0617.05 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Jaime D. Gascon, P.E.



NOA No. 07-0618.13
Expiration Date: October 24, 2012
Approval Date: November 15, 2007
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1057**, titled "Wood Manor Door Transom Impact Window", sheets 1 through 4 of 4, dated 11/08/2001 with revision A dated 08/16/2007, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

1. Test reports on
 - 1) Air Infiltration Test, PA 202-94
 - 2) Uniform Static Air Pressure Test, PA 202-94
 - 3) Water Resistance Test, PA 202-94
 - 4) Large Missile Impact, Test PA 201-94
 - 5) Cyclic Wind Pressure, PA 203-94
 - 6) Forced Entry Test, PA 202-94

along with marked-up drawings and installation diagram of 19 specimens of aluminum clad and non-clad wood doors and fixed/transom, prepared by Architectural Testing, Inc., Test Report No. **ATI 06-30303.01**, dated 12/8/2001, signed and sealed by Steven Ulrich, P.E.

(Submitted under NOA# 02-0617.06)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 08/16/2007, signed and sealed by Warren W. Schaefer, P.E.
Complies with ASTM E1300-98/02

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

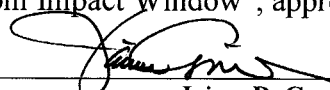
1. Notice of Acceptance No. **03-0417.01** issued to Cardinal LG for their "Laminated Glass Cardinal Sea-Storm Type B" dated May 15, 2003, expiring on December 30, 2007.

F. STATEMENTS

1. Statement letter of no financial interest, compliance and independence, dated 08/01/2005, signed and sealed by Warren Schaefer, P.E.
2. Laboratory compliance letter for Test Report nos. ATI WI01002 and ATI WI01003, issued by Architectural Testing Inc., dated 5/13/02, signed and sealed by Steven Ulrich, P.E.

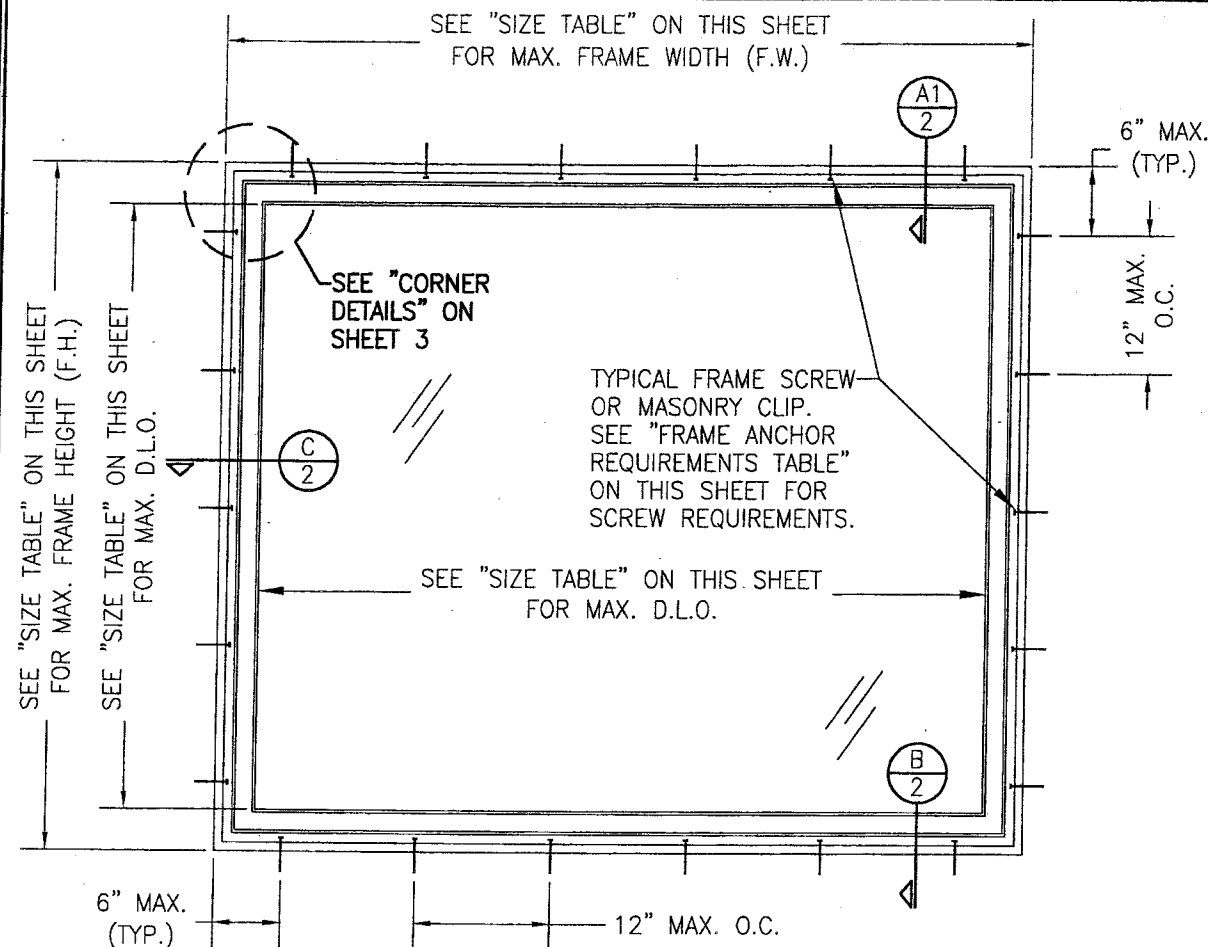
G. OTHER

1. Notice of Acceptance No. **02-0617.05**, issued to Kolbe & Kolbe Millwork Company, Inc. for their Series "Ultra Series Manor Door Transom Impact Window", approved on 10/24/2002 and expiring on 10/24/2007.


Jaime D. Gascon, P.E.

Chief, Product Control Division
NOA No. 07-0618.13

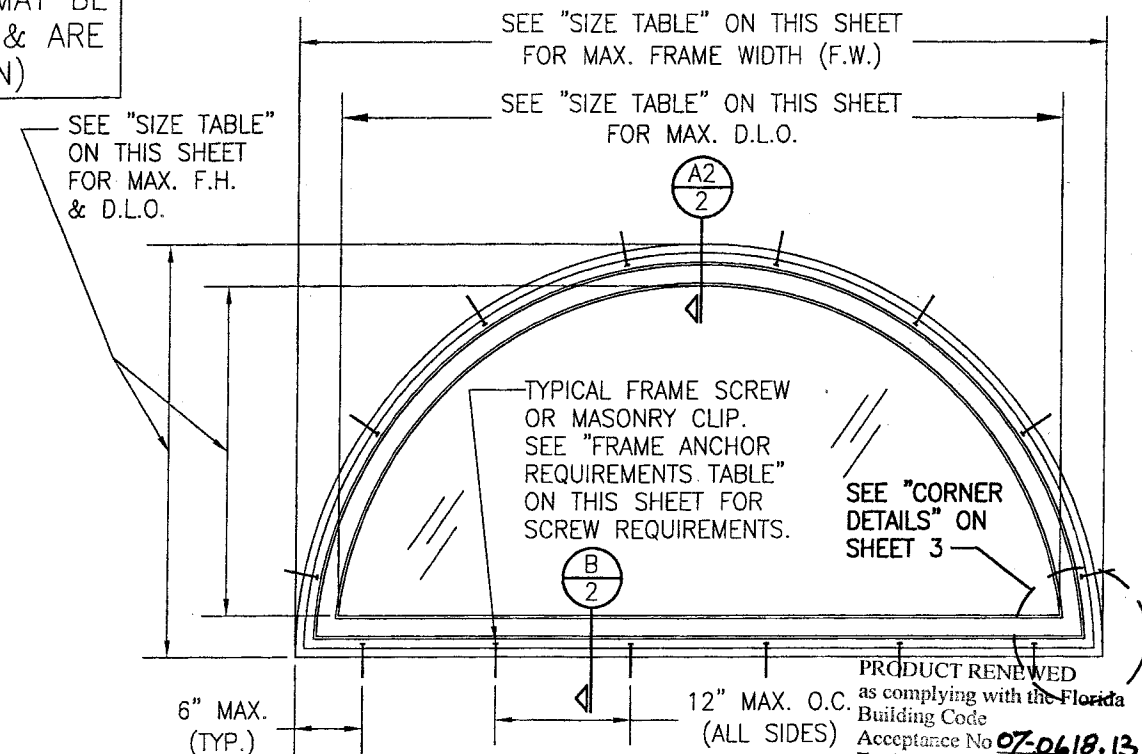
Expiration Date: October 24, 2012
Approval Date: November 15, 2007



**EXTERIOR ELEVATION
RECTANGULAR WINDOW**

SCALE: 3/4"=1'-0"

NOTE: BRICK MOLDS MAY BE PLACED AT EXTERIOR & ARE OPTIONAL (NOT SHOWN)



**EXTERIOR ELEVATION
HALF ROUND WINDOW**
(OTHER RADIUS/CURVE SHAPES SIMILAR)
SCALE: 3/4"=1'-0"

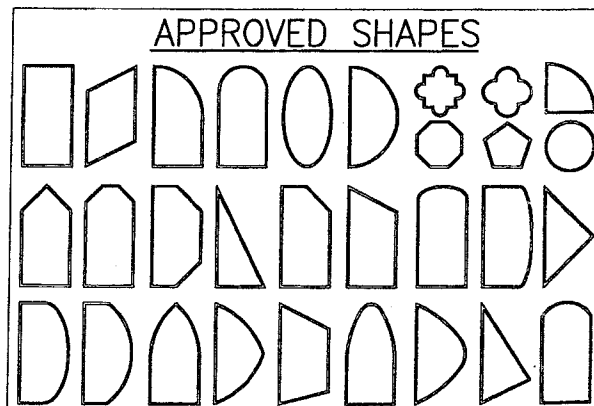
GENERAL NOTES

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOADS" TABLE(S).
2. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE 2004 FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THESE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
8. ALL FRAME ANCHORS SECURING WINDOW/DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
9. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE & GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ SHALL BE USED.
10. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW DESIGN.

| ALLOWABLE WINDOW SIZE TABLE | | | | ALLOWABLE DESIGN LOAD | |
|-----------------------------|----------------|--------------|---------|-----------------------|-------------------|
| HEIGHT (IN.) | WIDTH (IN.) | D.L.O. (IN.) | | POSITIVE (PSF) | NEGATIVE (PSF) |
| | | HEIGHT | WIDTH | | |
| 36 | 124 | 28 7/8 | 116 7/8 | 65.0 | 65.0 |
| 36 | 116 | 28 7/8 | 108 7/8 | 70.0 | 70.0 |
| 42 | 106 | 34 7/8 | 98 7/8 | 65.0 | 65.0 |
| 42 | 99 | 34 7/8 | 91 7/8 | 70.0 | 70.0 |
| 48 | 93 | 40 7/8 | 85 7/8 | 65.0 | 65.0 |
| 48 | 87 | 40 7/8 | 79 7/8 | 70.0 | 70.0 |
| 54 | 83 | 46 7/8 | 75 7/8 | 65.0 | 65.0 |
| 54 | 77 | 46 7/8 | 69 7/8 | 70.0 | 70.0 |
| 60 | 74 7/8 | 52 7/8 | 67 3/4 | 65.0 | 65.0 |
| 60 | 69 | 52 7/8 | 61 7/8 | 70.0 | 70.0 |
| 66 | 68 | 58 7/8 | 60 7/8 | 65.0 | 65.0 |

APPLICABLE FOR SINGLE WINDOWS ONLY.

NOTE: HEIGHT (F.H.) & WIDTH (F.W.) ARE INTERCHANGABLE & ARE $\pm 1/2"$.



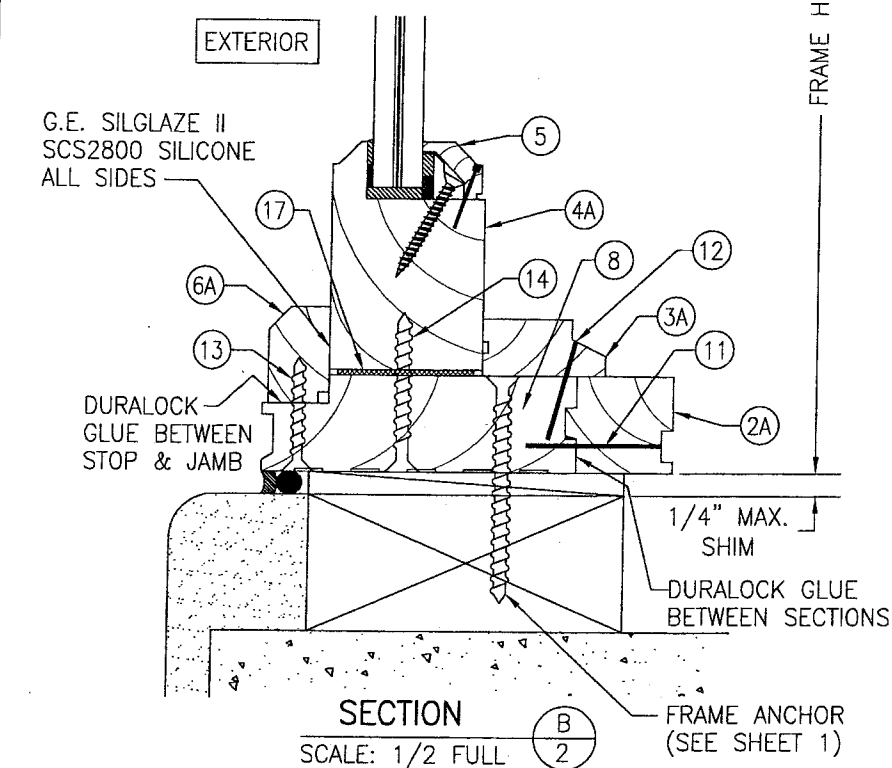
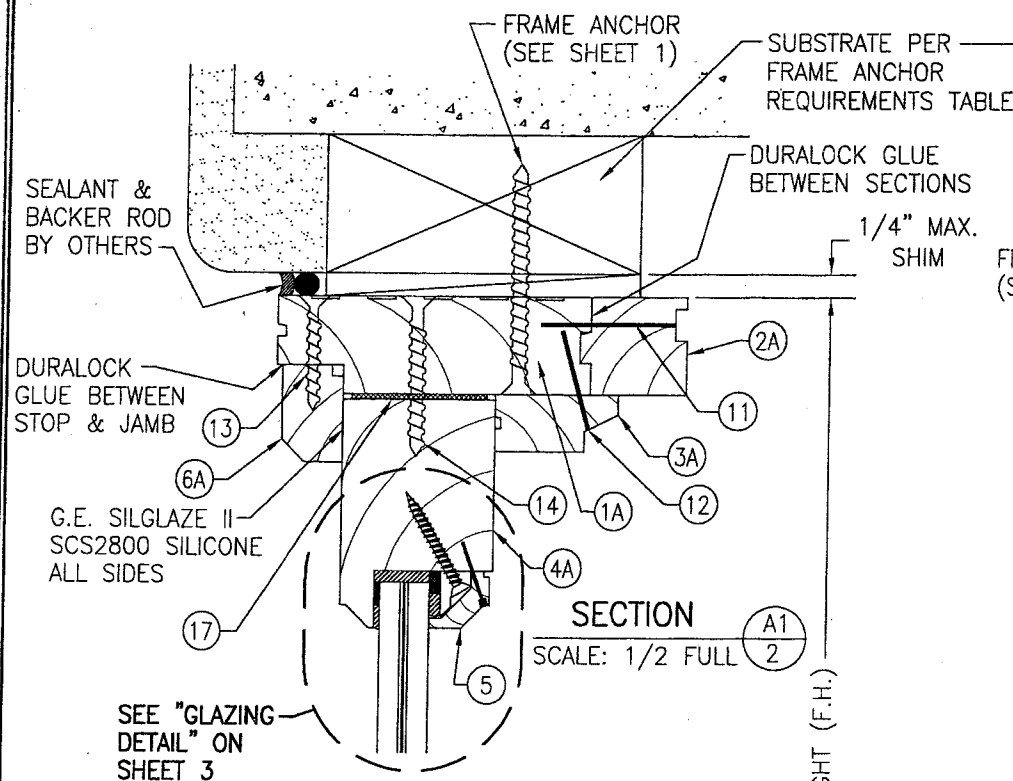
NOTES:

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION PER CORNER DETAILS.
2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.

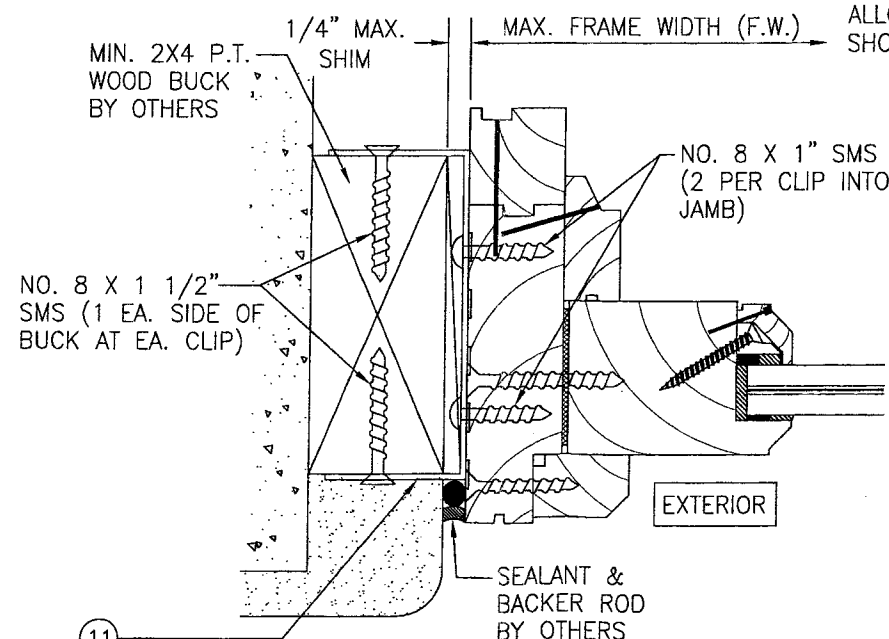
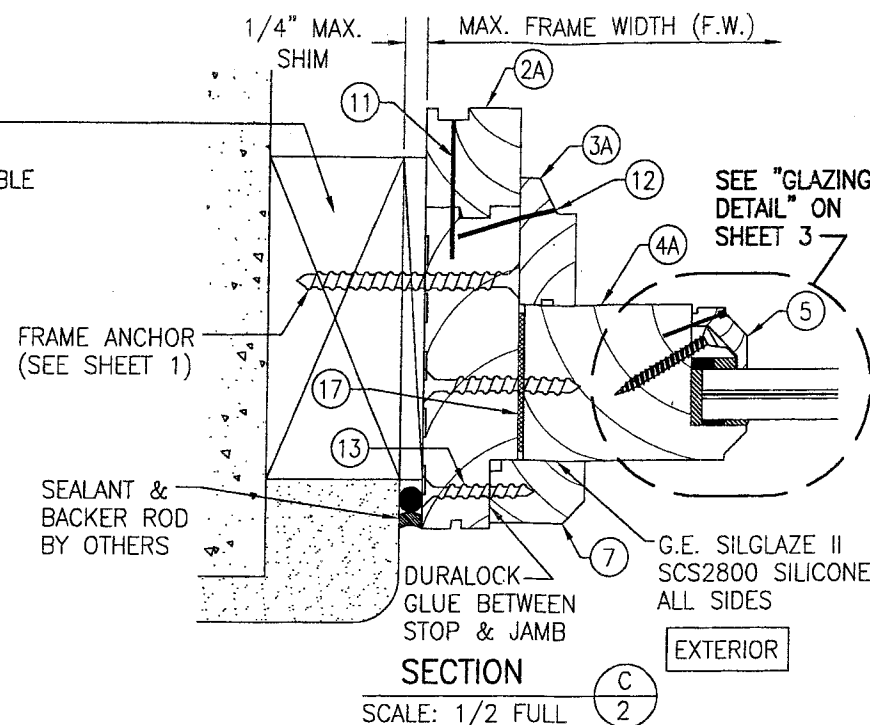
FRAME ANCHOR REQUIREMENTS TABLE

| FRAME SHEAR SCREWS | | | |
|---|---|------------------|-----------------------|
| OPENING TYPE (SUBSTRATE) | FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE | MINIMUM EMBED | MINIMUM EDGE DIST. |
| 2X WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55) | NO. 10 SMS OR WOOD SCREW | 1 1/4" | 3/4" |
| C-90 CMU/2500 PSI CONCRETE | (1) 3/16" CONCRETE SCREW | 1 1/4" | 2" |
| (1) CONCRETE SCREWS SHALL BE ELCO OR ITW RAMSET/RED HEAD TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER (HARDENED STEEL OR S.S.). | | | |

| | | | |
|---|--------------|-------------------------|-----------|
| DRAWN BY: W.W.S. | | CHECKED BY: W.W.S. | |
| PLOT: 1=16 | | DATE: 11/08/01 | |
| DATE 08/16/07 | BY W.W.S. | REVISION DESCRIPTION | NO. A1 |
| REVISION DESCRIPTION | | NO. A1 | |
| DRAWING TITLE: WOOD MANOR DOOR TRANSOM IMPACT WINDOW MANUFACTURER: KOLBE & KOLBE MILLWORK CO., INC. 1323 SOUTH 11TH AVE. WAUSAU, WI 54401 715-842-5666 | | | |
| CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903 | | | |
| CERTIFICATION: AUG 17 2007 W. W. SCHAEFER, P.E. P.E. NO. 44135 | | | |
| DRAWING NO. 1057 | | REV. A | |
| SHEET NO. 1 OF 4 | | | |

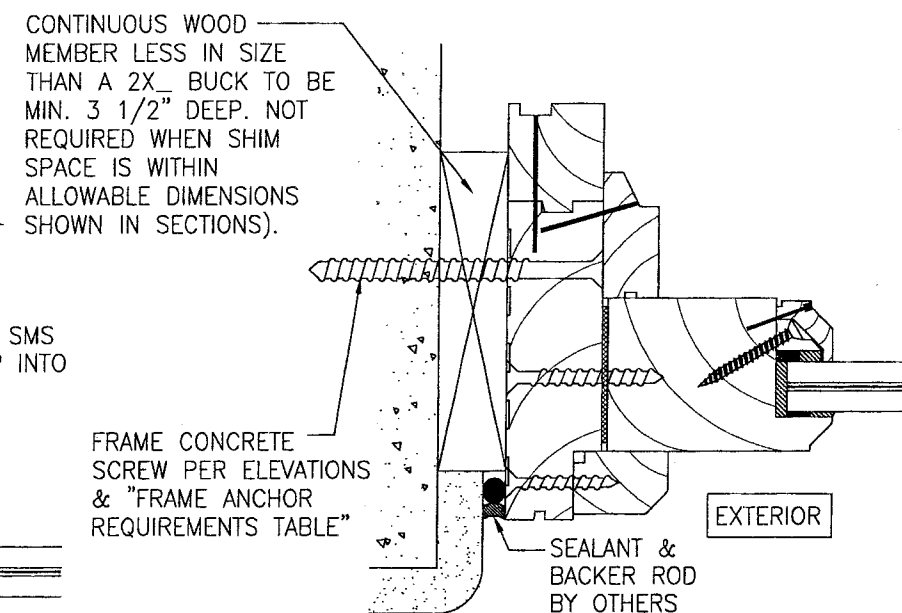
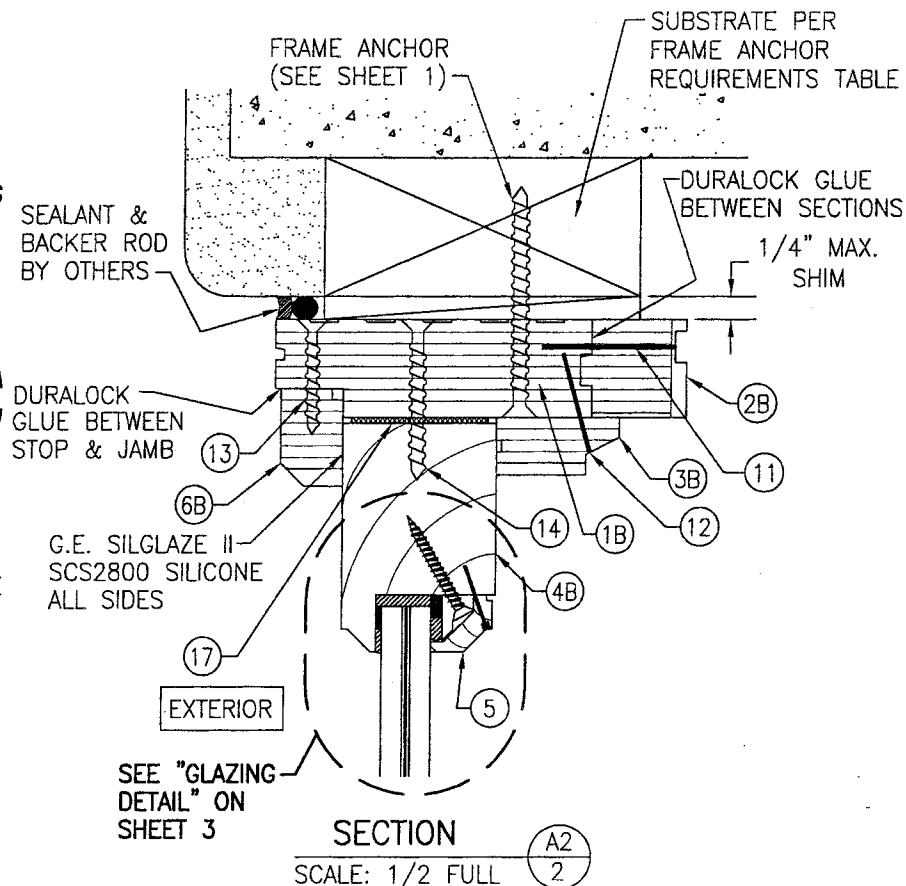


NOTE: BRICK MOLDS MAY BE PLACED AT EXTERIOR & ARE OPTIONAL (NOT SHOWN)



18 GA. STEEL MASONRY CLIP TO REPLACE JAMB ANCHOR SCREWS PER ELEVATIONS

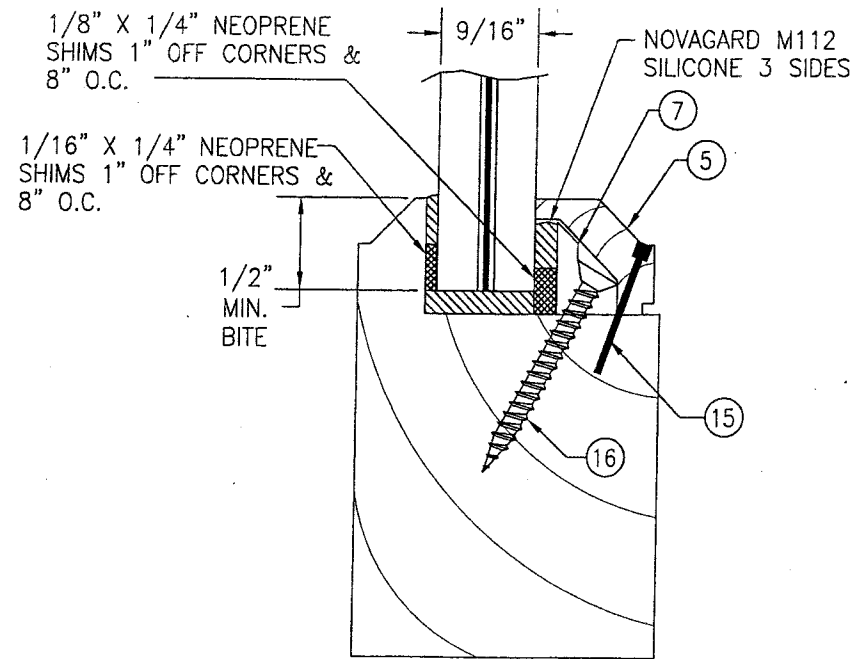
OPTIONAL MASONRY CLIP MOUNT DETAIL
FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS.



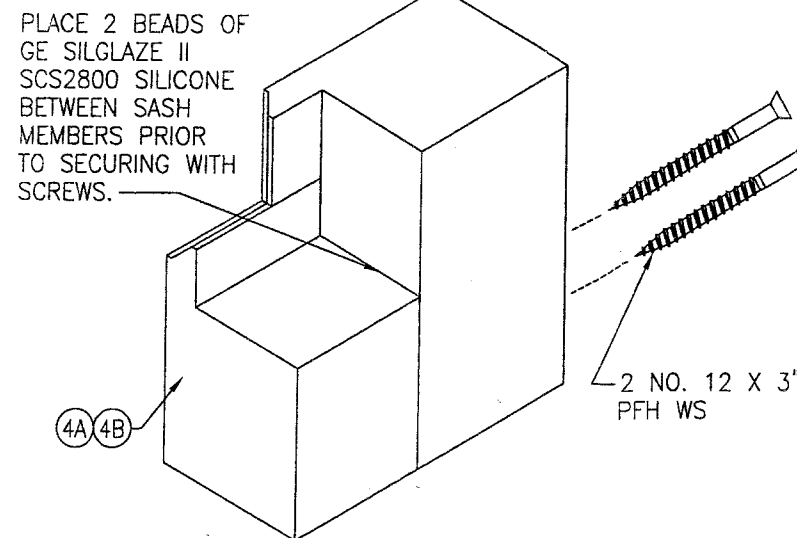
OPTIONAL DIRECT MOUNT DETAIL TO BLOCK OR CONCRETE WITH SPACER OR SHIM
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 07-0618.13
Expiration Date 10/24/2012
By *[Signature]*
Miami Dade Product Control Division

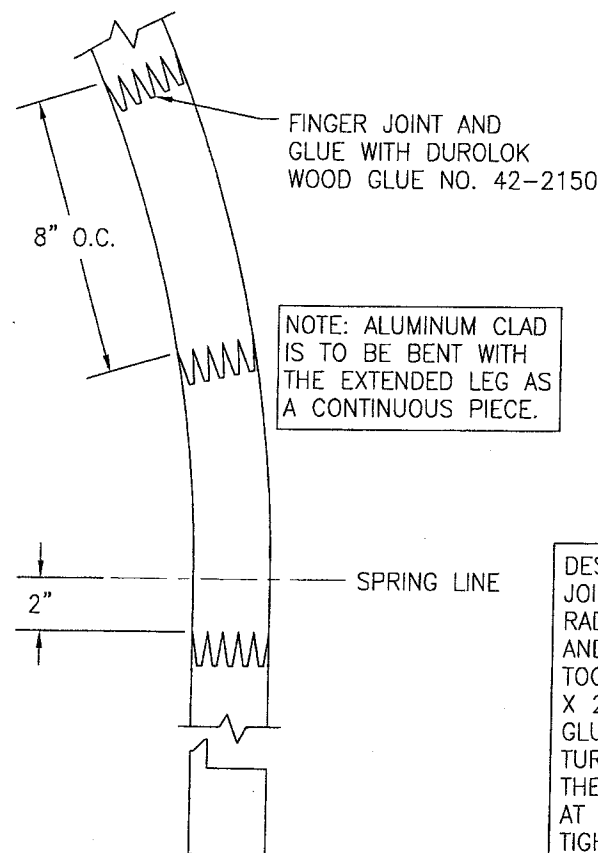
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|--|---|
| DRAWN BY: W.W.S. | CHECKED BY: W.W.S. |
| PLOT: 1=2 | DATE: 11/08/01 |
| NO. | REVISION DESCRIPTION |
| DATE | BY |
| DRAWING TITLE: WOOD MANOR DOOR TRANSOM IMPACT WINDOW | |
| CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. | |
| MANUFACTURER: KOLBE & KOLBE MILLWORK CO., INC. | |
| 1323 SOUTH 11TH AVE. WAUSAU, WI 54401 715-842-5666 | |
| 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903 | |
| CERTIFICATION: AUG 17 2007 | WARREN W. SCHAEFER, P.E. P.E. NO. 44135 |
| DRAWING NO. 1057 | REV. A |
| SHEET NO. 2 | OF 4 |



GLAZING DETAIL
9/16" CARDINAL SEASTORM TYPE "B" LAMINATED GLASS
(1/4" AN/0.015 PVB/0.007 PET/0.075 PVB/1/4" AN)



TYP. SASH CORNER DETAIL
(TYP. AT ALL CORNERS 90 DEGREES & LESS)
NOTE: AT CORNERS LESS THAN 90 DEGREES, THE CORNER JOINT IS PARALLEL TO THE STRAIGHT MEMBER AND THE SCREWS RUN THROUGH THE STRAIGHT SASH INTO THE BENT/RADIUS SASH.

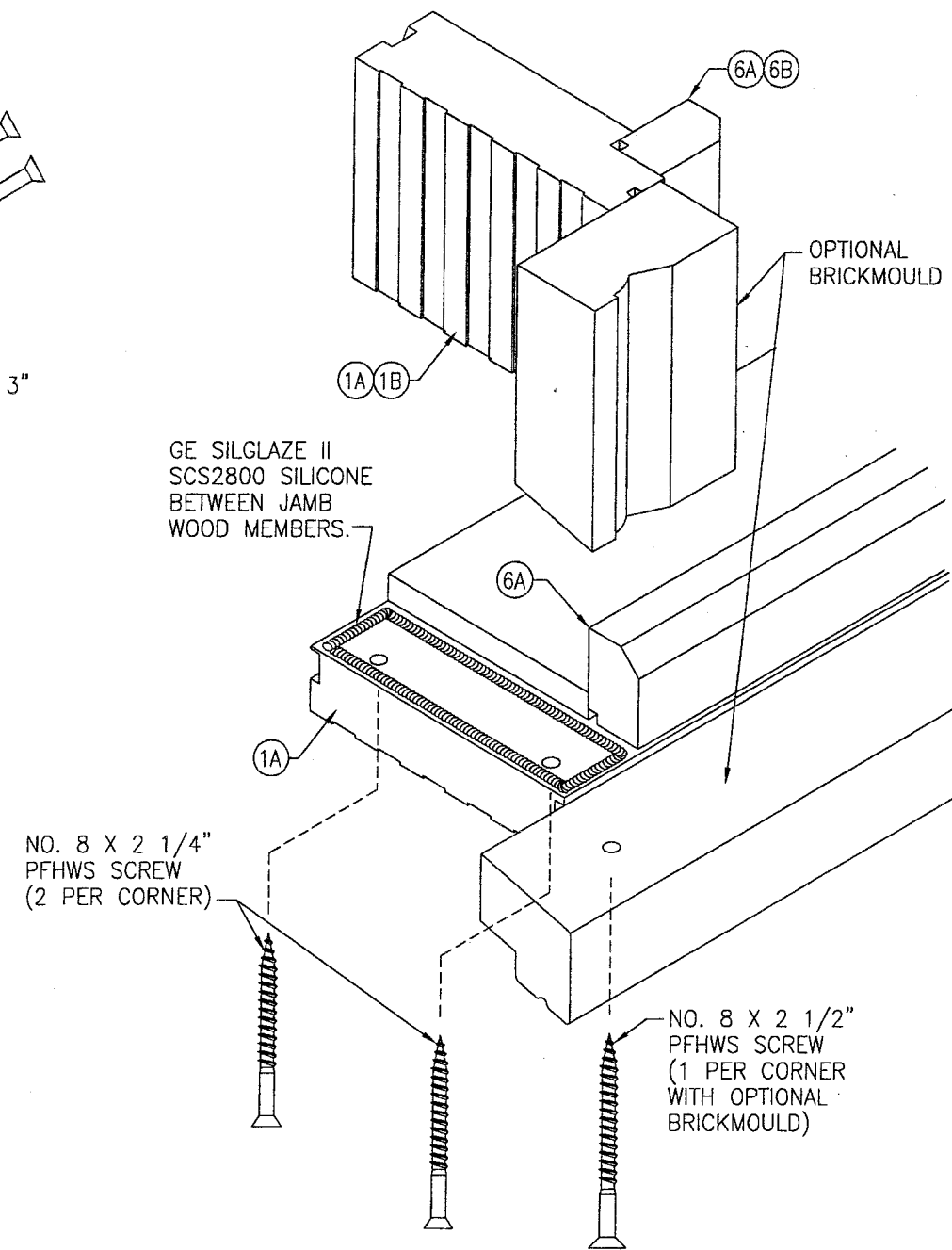


TYP. EXTENDED LEG DETAIL AT SASH

NOTE: ALUMINUM CLAD IS TO BE BENT WITH THE EXTENDED LEG AS A CONTINUOUS PIECE.

DESCRIPTION: EXTENDED LEG IS FINGER JOINTED SIMILAR TO SASH AROUND RADIUS. AT SPRING LINE, THE RADIUS AND STRAIGHT MEMBERS ARE BUTTED TOGETHER, DOWELED WITH TWO 3/8" X 2" LONG WOOD DOWELS AND FULLY GLUED WITH PVA GLUE. A STEEL TURNBUCKLE IS ALSO ROUTED INTO THE OPENING SIDE OF THE JAMBS AT THE SPRINGLINE AND USED TO TIGHTEN DOWN THE JOINT.

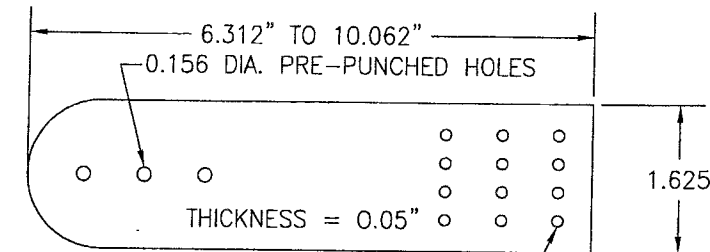
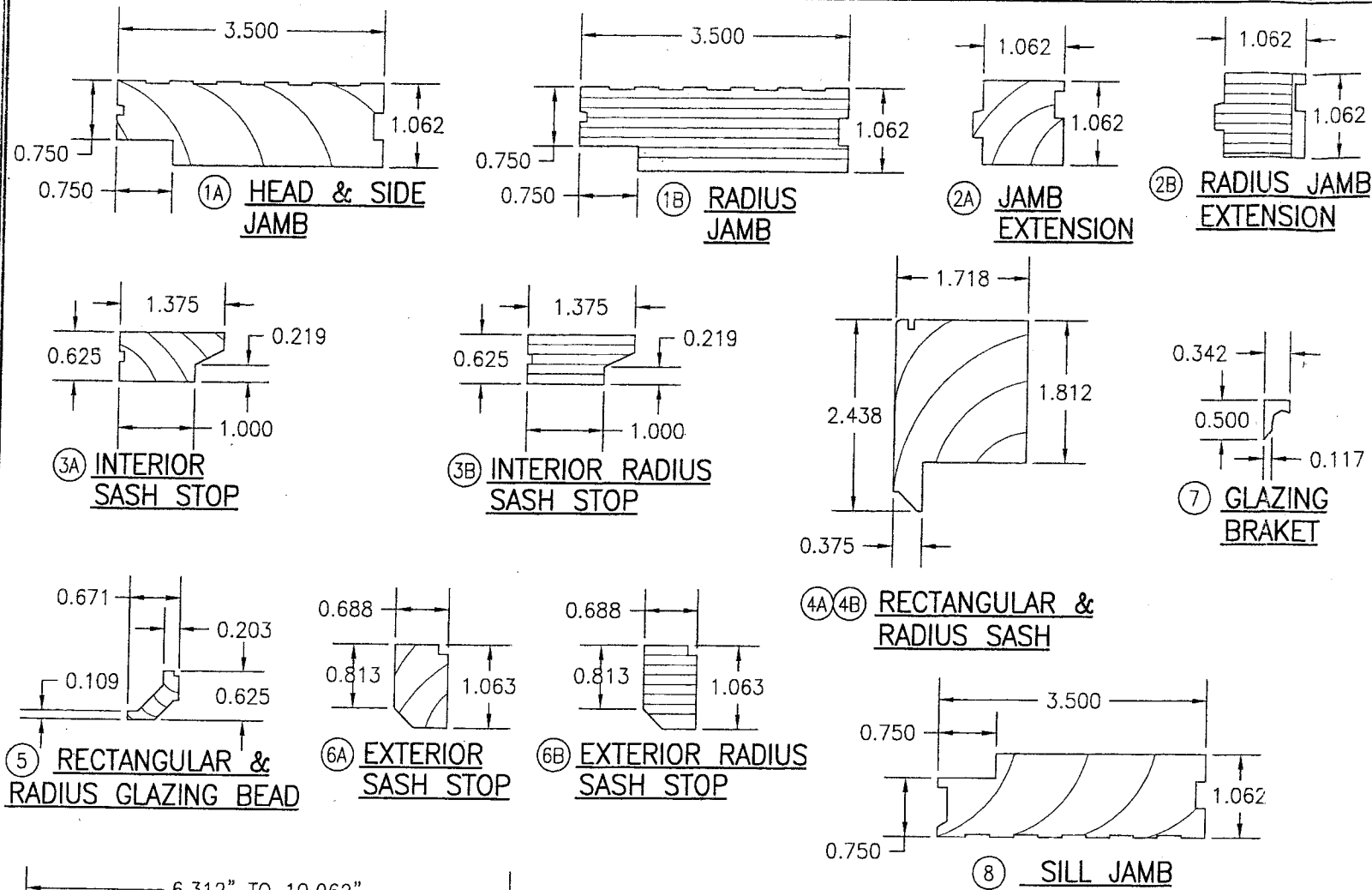
TYP. EXTENDED LEG AT JAMB



TYP. JAMB CORNER DETAIL
(TYP. AT ALL CORNERS 90 DEGREES & LESS)

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 07-0618.13
Expiration Date 10/24/2012
By *[Signature]*
Miami Dade Product Control
Division

| | | | |
|---|----------|--|------|
| DRAWN BY: W.W.S. | | CHECKED BY: W.W.S. | |
| PLOT: 1=2 | | DATE: 11/08/01 | |
| NO. | REVISION | DESCRIPTION | DATE |
| | | | |
| | | | |
| | | | |
| DRAWING TITLE: WOOD MANOR DOOR TRANSOM IMPACT WINDOW | | | |
| CONSULTANTS | | MANUFACTURER | |
| W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903 | | KOLBE & KOLBE MILLWORK CO., INC. 1323 SOUTH 11TH AVE. WAUSAU, WI 54401 715-842-5666 | |
| CERTIFICATION | | P.E. | |
| AUG 17 2007 | | WARREN W. SCHAEFER, P.E. P.E. NO. 44135 | |
| DRAWING NO. 1057 | | REV. A | |
| SHEET NO. 3 | | OF 4 | |



0.125 DIA. PREPUNCHED HOLES

9 MASONRY CLIP

PRE-PUNCHED HOLES ARE ADDED FOR CLIPS LONGER THAN 6.3"

| ITEM # | PART | ITEM DESCRIPTION | MANUFACTURER/NOTES |
|-------------------------|-------|---|-----------------------------------|
| PARTS | | | |
| 1A | 2902 | FRAME HEAD & SIDE JAMB | * WOOD |
| 1B | 2902 | FRAME RADIUS JAMB | LVL |
| 2A | 4824 | JAMB EXTENSION | * WOOD |
| 2B | 4824 | RADIUS JAMB EXTENSION | LVL |
| 3A | 4808 | INTERIOR SASH STOP | * WOOD |
| 3B | 4808 | INTERIOR RADIUS SASH STOP | LVL |
| 4A | 1358 | SASH | * WOOD |
| 4B | 1358 | RADIUS SASH | * FINGER JOINTED WOOD |
| 5 | 1055 | GLAZING BEAD | * WOOD |
| 6A | 2900 | EXTERIOR SASH STOP | * WOOD |
| 6B | 2900 | EXTERIOR RADIUS SASH STOP | * WOOD |
| 7 | B5800 | GLAZING BRACKET | RIGID PVC BY CLIM-A-TECH IND |
| 8 | 2909 | SILL JAMB | * WOOD |
| 9 | BHDMS | 1 5/8" WIDE X 0.05" THK. X MIN. 6 5/16" LONG MASONRY CLIP | ASTM A653 MIN. 33 KSI GALV. STEEL |
| MISCELLANEOUS FASTENERS | | | |
| 11 | - | 16 GA. 1/2" X 1.5" LG. CROWN STAPLE | 2" FROM ENDS & 8" O.C. |
| 12 | - | 18 GA. X 3/16" X 1 1/8" CROWN STAPLE | 2" FROM ENDS & 8" O.C. |
| 13 | - | #7 X 1 1/4" PFH SMS SCREW | 2" FROM ENDS & 8" O.C. |
| 14 | - | #8 X 2 1/4" POH SCREW | 2" FROM ENDS & 8" O.C. |
| 15 | - | 3/4" BRAD NAIL | 2" FROM ENDS & 8" O.C. |
| 16 | - | #6 X 1 1/4" PFH SMS SCREW | 1" FROM ENDS & 8" O.C. |
| MISCELLANEOUS | | | |
| 17 | BFMDR | 5/8" X 1.5" X 1/16" RUBBER SHIMS | 2" FROM ENDS & 8" O.C. |

* WOOD USED WITH TEST UNITS WAS GRADE 2 PONDEROSA PINE. ALTERNATE WOOD SPECIES TO BE APPLICABLE WITH THESE WINDOWS IS MIN. GRADE 2 MAHOGANY, SOUTHERN PINE, OAK, CHERRY, MAPLE, DOUGLAS FIR & CYPRUS.

| | | | |
|--|----|--|-------------|
| DRAWN BY: W.W.S. | | CHECKED BY: W.W.S. | |
| PLOT: 1=2 | | DATE: 11/08/01 | |
| DATE | BY | REVISION | DESCRIPTION |
| | | | |
| DRAWING TITLE: WOOD MANOR DOOR TRANSOM IMPACT WINDOW | | | |
| CONSULTANTS | | MANUFACTURER | |
| W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. | | KOLBE & KOLBE MILLWORK CO., INC. | |
| 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903 | | 1323 SOUTH 11TH AVE. WAUSAU, WI 54401 715-842-5666 | |
| CERTIFICATION | | AUG 17 2007 | |
| By: [Signature] | | WARREN W. SCHAEFER, P.E. | |
| Miami Dade Product Control Division | | P.E. NO. 44135 | |
| DRAWING NO. 1057 | | REV. A | |
| SHEET NO. 4 | | OF 4 | |

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 07-0618.13
Expiration Date 10/24/2012

By: [Signature]
Miami Dade Product Control
Division